

**AMENDMENTS TO THE ABSTRACT**

**Please replace the current abstract with the following:**

A system for modeling thrombopoietic lineage in an individual. The system comprises a thrombopoiesis system model including a process progression model, for cells involved in thrombopoiesis, said progression model including multiplication and differentiation. It further comprises a system model modifier, wherein said thrombopoiesis system model is modified by the system model modifier based on parameters specific to the individual. In addition to modifying an individual's thrombopoietic process, the system can be modified to portray different pathological scenarios as well as different scenarios of response to treatment.